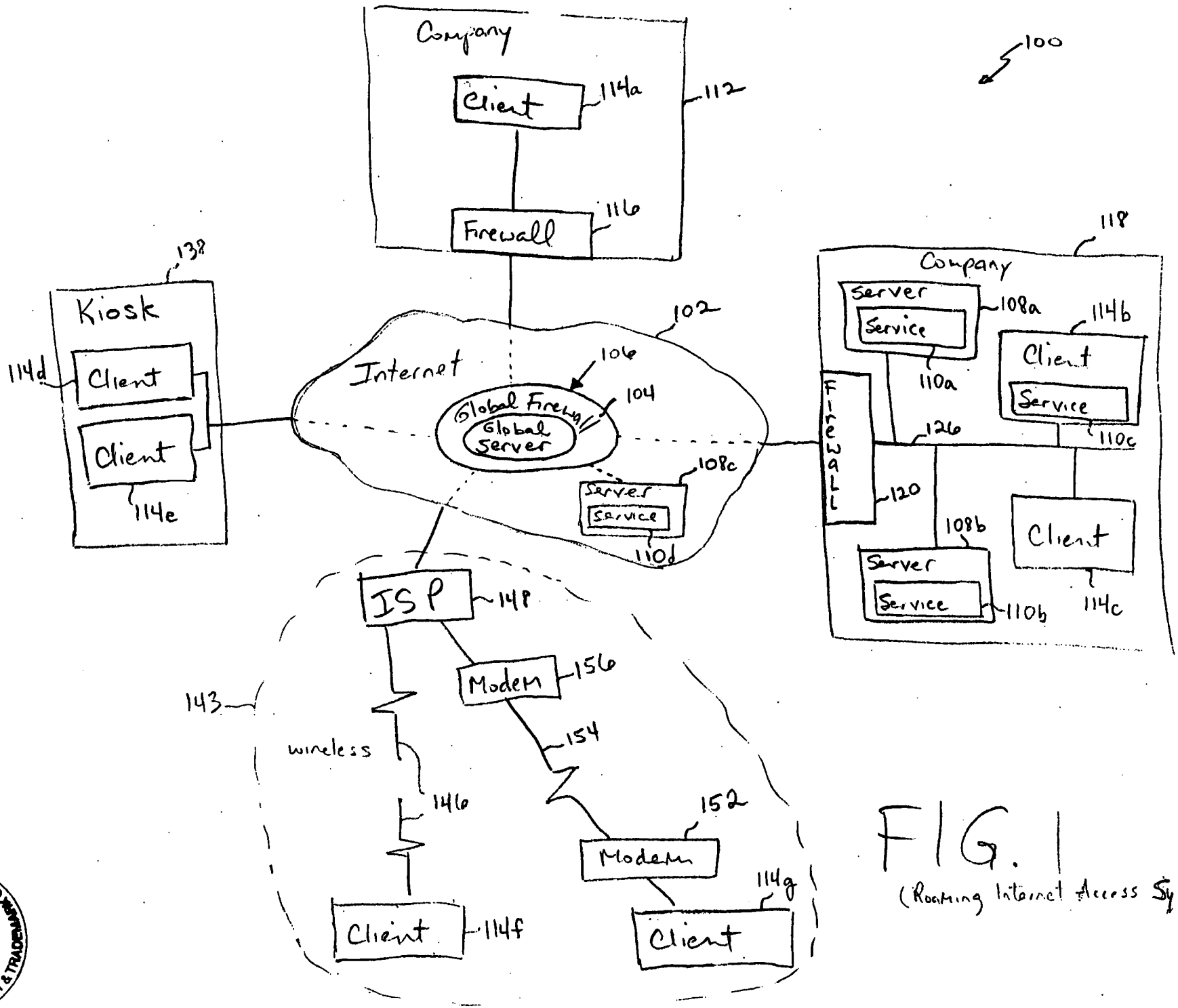

FIG. 1
(Roaming Internet Access System)

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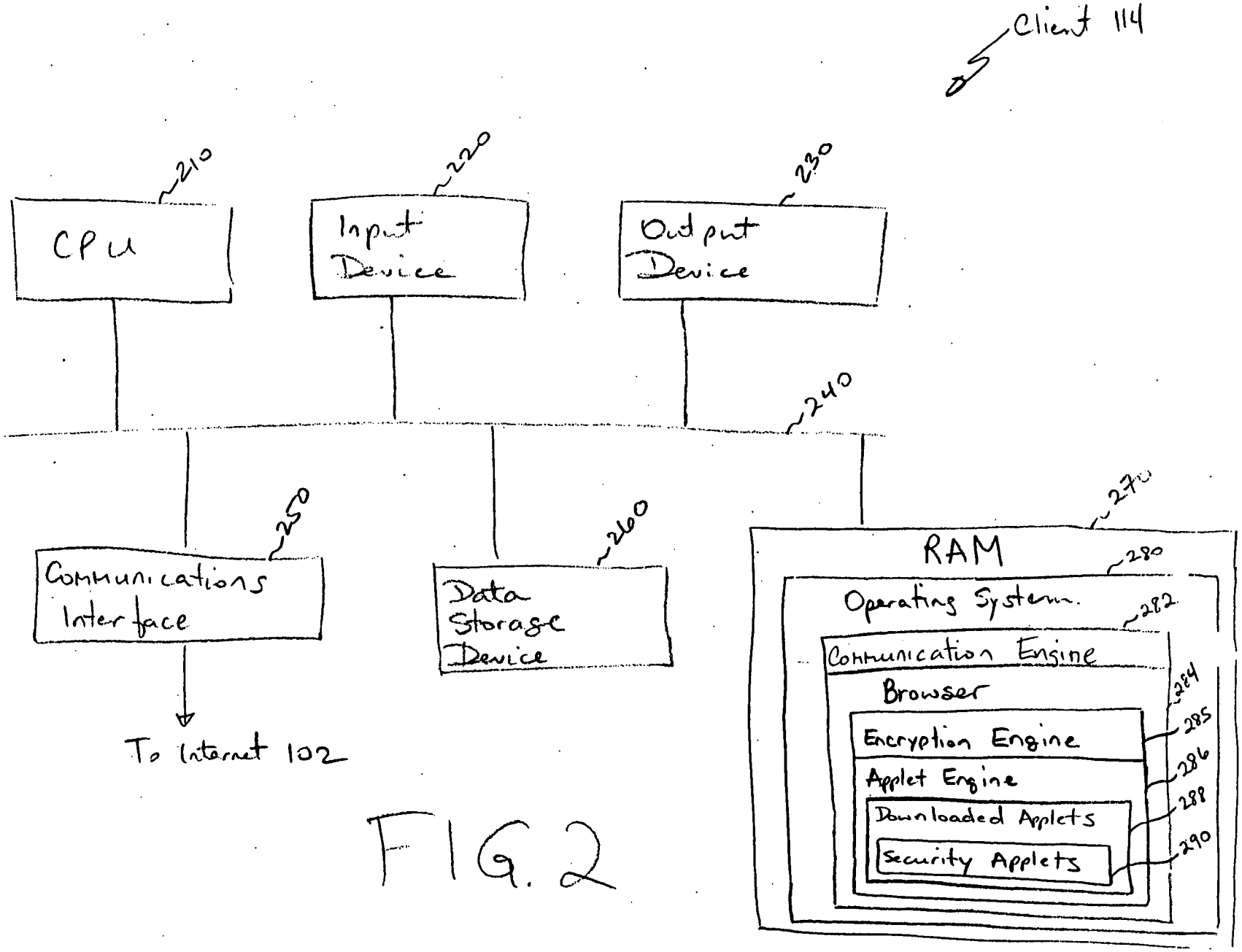
Client 114
210
CPU
220
Input Device
230
Output Device
240
250
Communications Interface
To Internet 102
260
Data Storage Device
270
RAM
280
Operating System
282
Communication Engine
Browser
284
Encryption Engine
285
Applet Engine
286
Downloaded Applets
288
Security Applets
290

FIG. 2

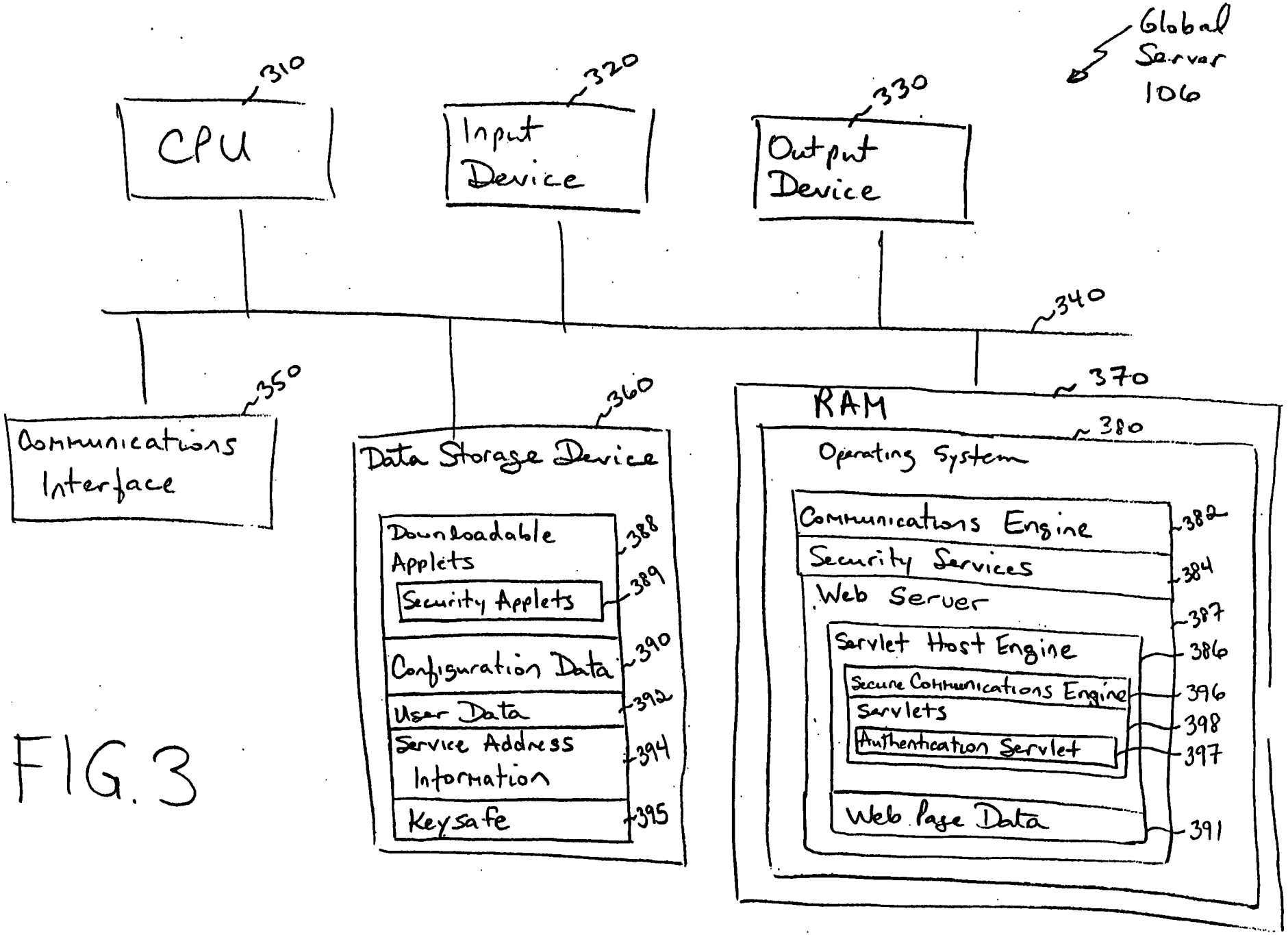
Global Server 106
310
CPU
320
Input Device
330
Output Device
340
350
Communications Interface
360
Data Storage Device
Downloadable Applets
388
Security Applets
389
Configuration Data
390
User Data
392
Service Address Information
394
Keysafe
395
370
RAM
380
Operating System
Communications Engine
382
Security Services
384
Web Server
387
Servlet Host Engine
386
Secure Communications Engine
396
Servlets
398
Authentication Servlet
397
Web Page Data
391

FIG. 3

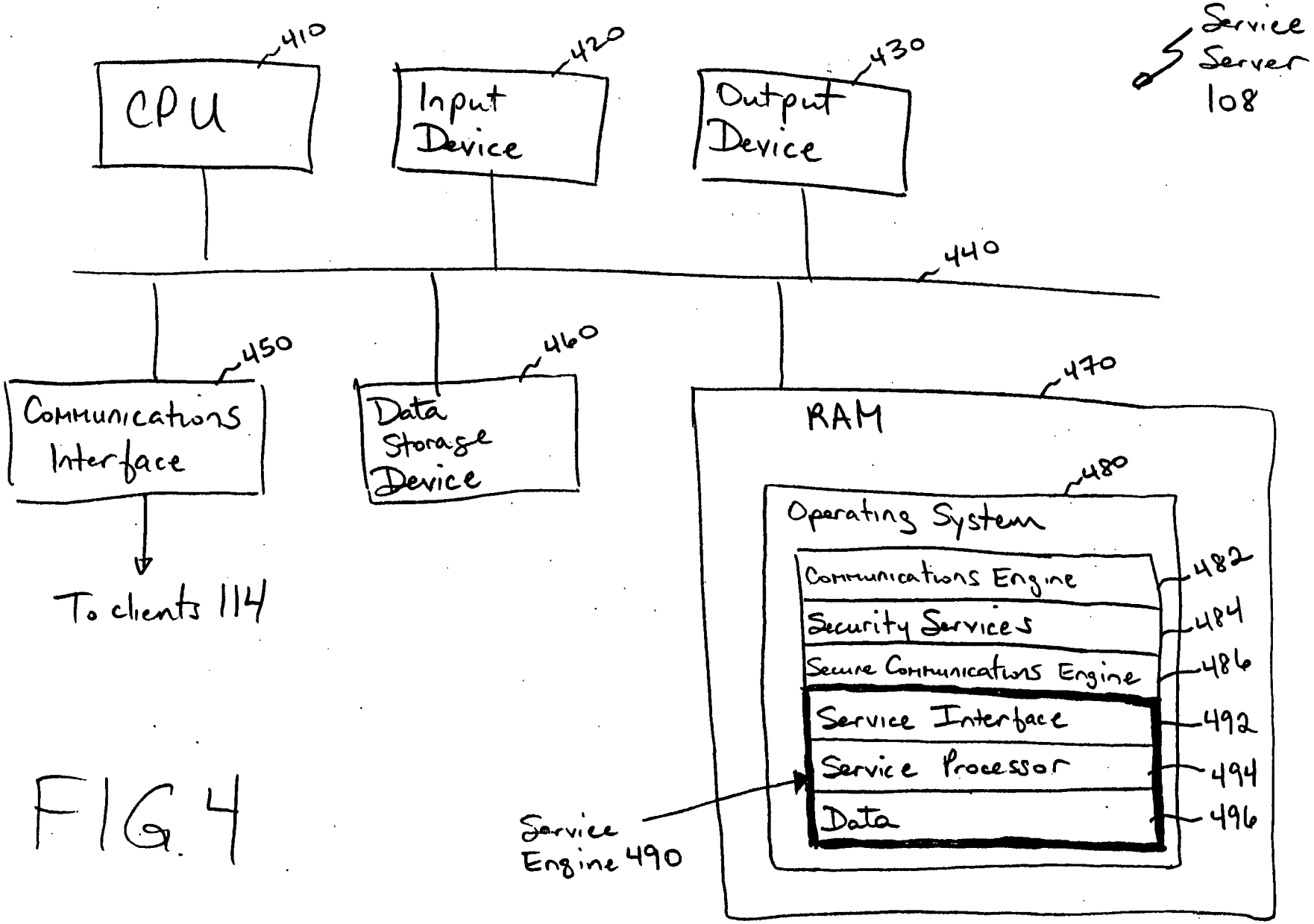
Service Server 108
410
CPU
420
Input Device
430
Output Device
440
450
Communications Interface
460
Data Storage Device
470
RAM
480
Operating System
Communications Engine
482
Security Services
484
Secure Communications Engine
486
Service Interface
492
Service Processor
494
Data
496
To clients 114
Service Engine 490

FIG. 4

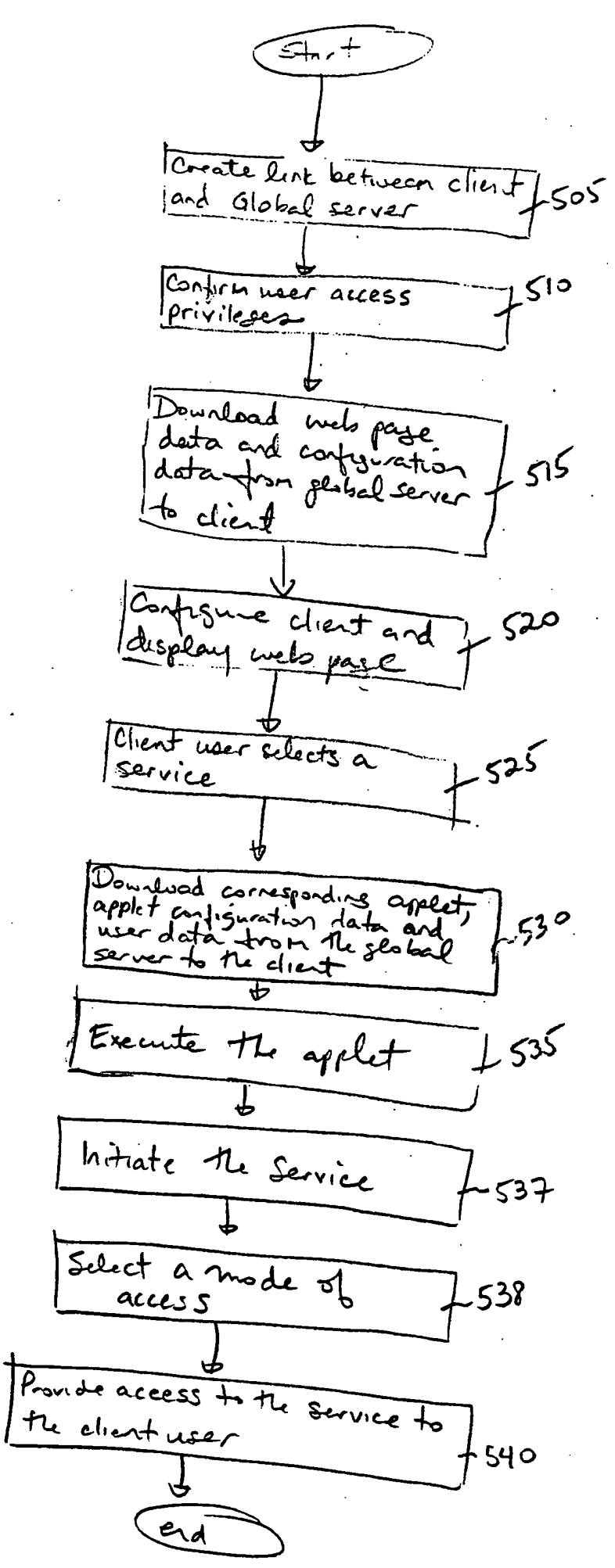
500
Start
Create link between client and Global server
505
Confirm user access privileges
510
Download web page data and configuration data from global server to client
515
Configure client and display web page
520
Client user selects a service
525
Download corresponding applet, applet configuration data and user data from the global server to the client
530
Execute the applet
535
Initiate the Service
537
Select a mode of access
538
Provide access to the service to the client user
540
end

FIG. 5

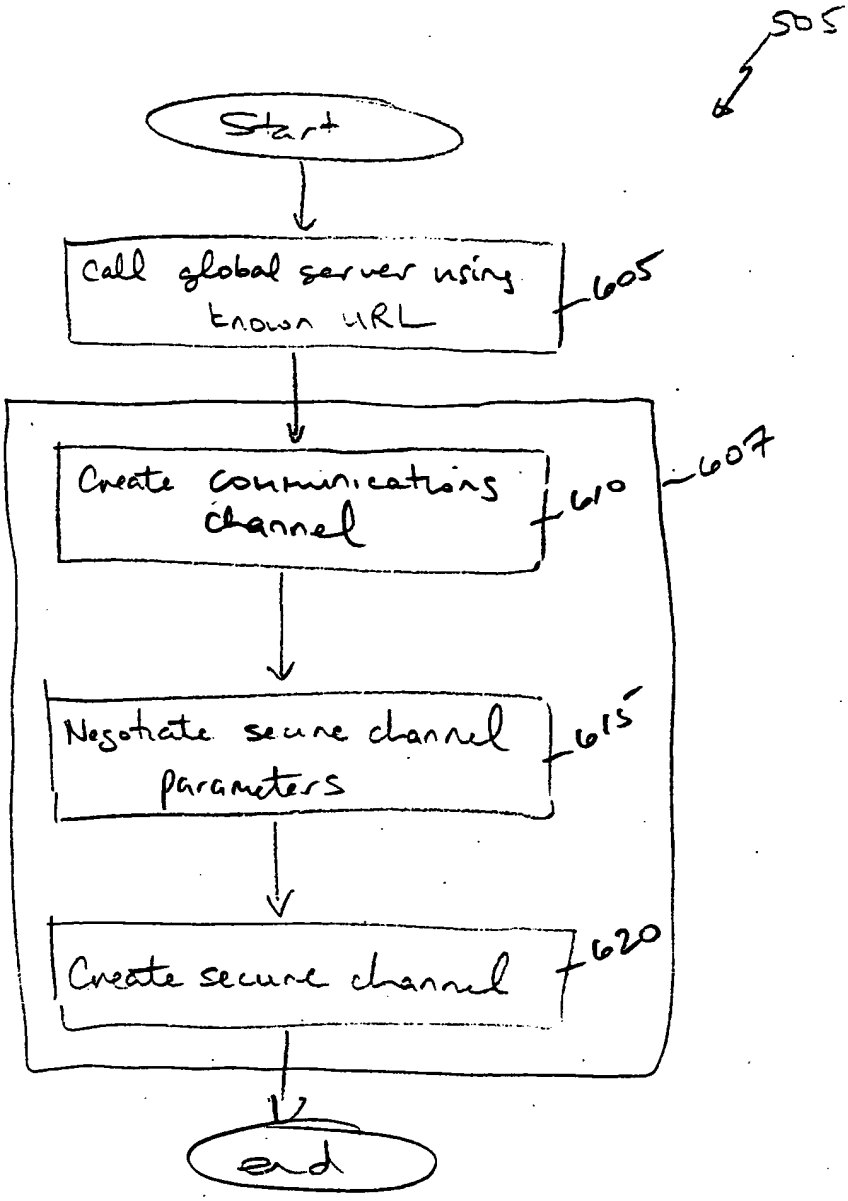
505
Start
Call global server using known URL
605
607
Create communications channel
610
Negotiate secure channel parameters
615
Create secure channel
620
end

FIG. 6

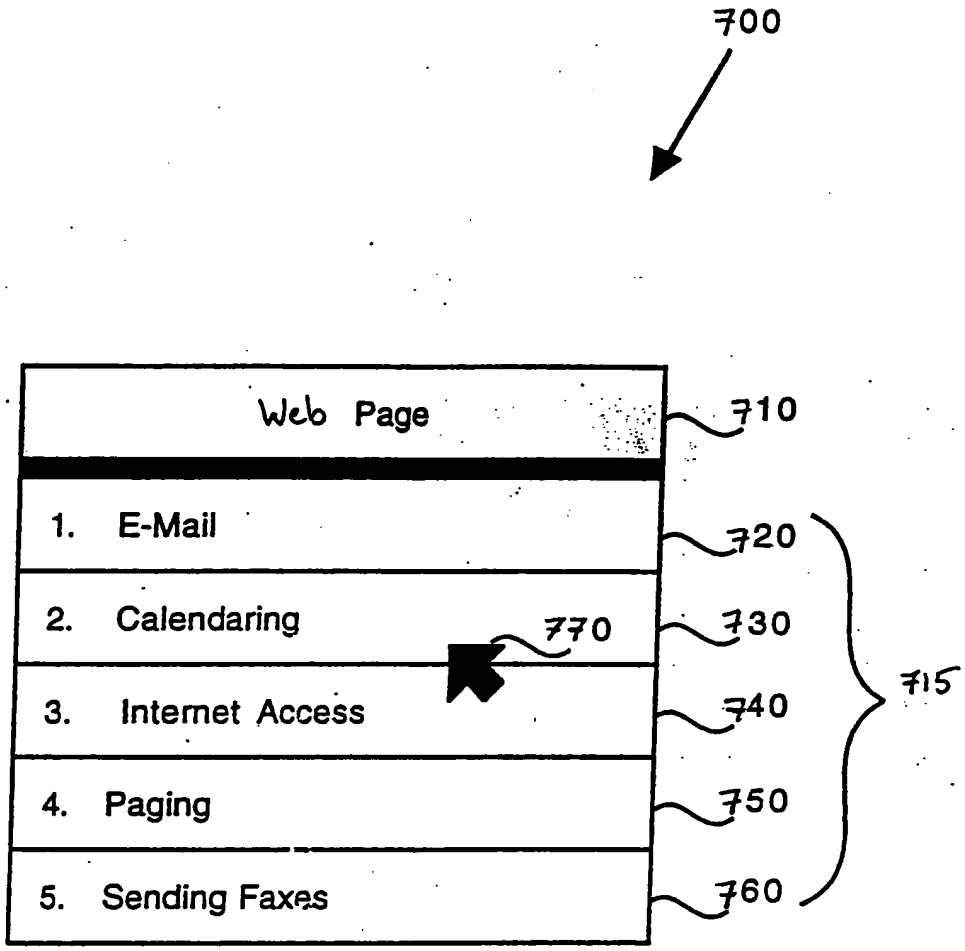

FIG. 7

(Web Page Screen Shot)

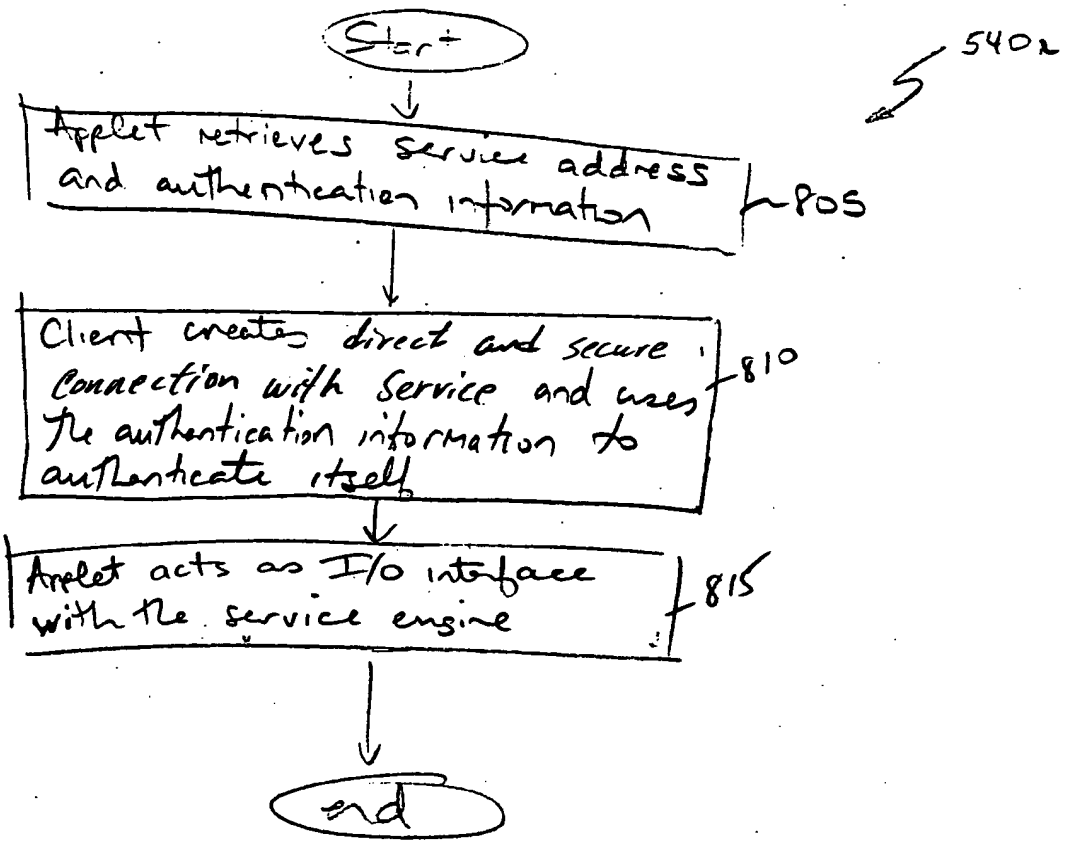

FIG. 8A (Redirect)

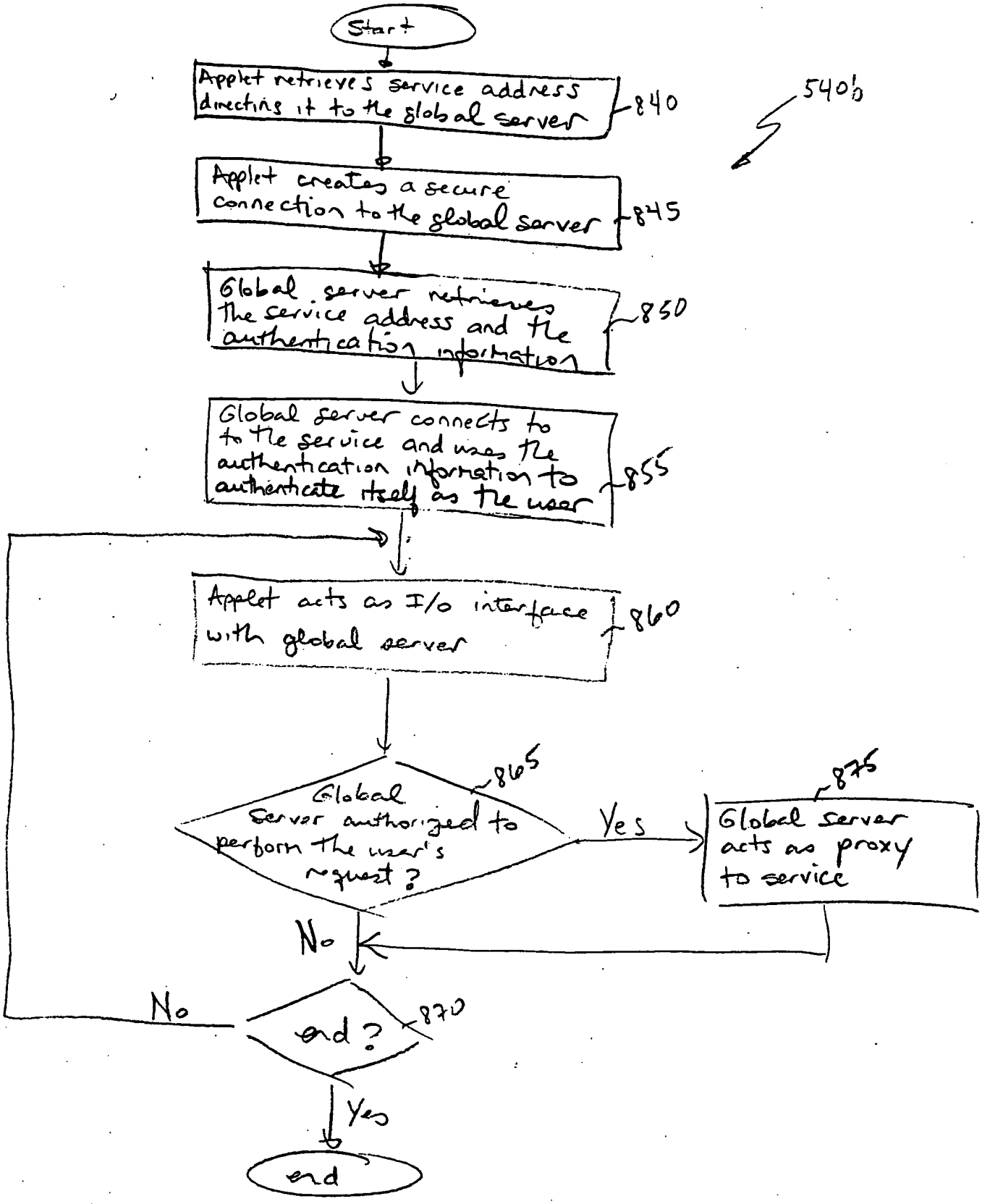
Start
Applet retrieves service address directing it to the global server
840
540b
Applet creates a secure connection to the global server
845
Global server retrieves the service address and the authentication information
850
Global server connects to to the service and uses the authentication information to authenticate itself as the user
855
Applet acts as I/O interface with global server
860
Global server authorized to perform the user's request?
865
Yes
Global server acts as proxy to service
875
No
No
end?
870
Yes
end

FIG. 8B (Proxy)

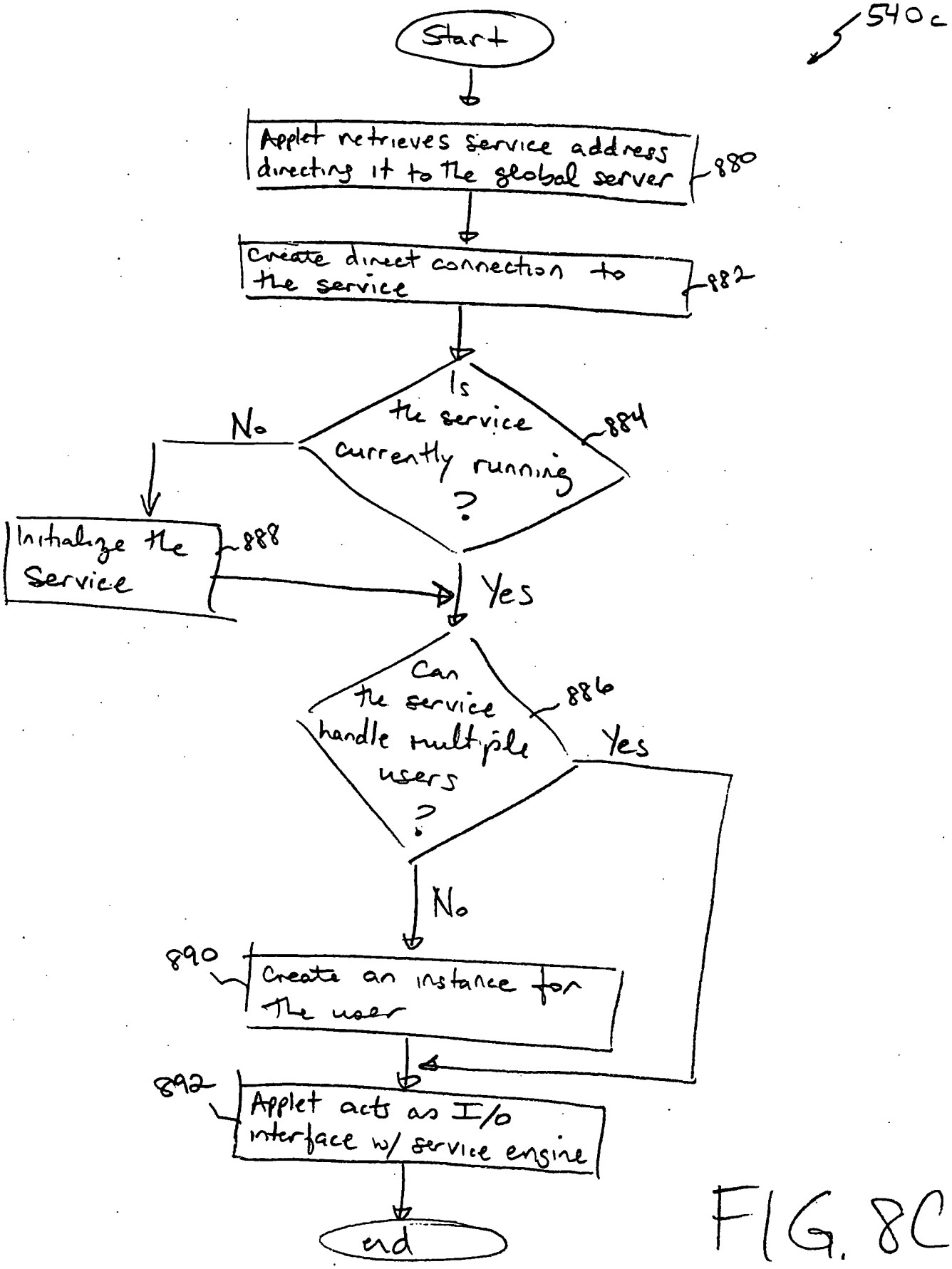

FIG. 8C

(Direct to data)